Kadiograph

Typewriter Speeds Radio Messages Between Land and Airplane

Flying naval airplanes will soon be sending their messages to land or ship stations in typewritten form! This remarkable advancement in radio development has just been announced by the navy department It is an actual achievement, fully tested and found of great importance in communication between aircraft and their stations.

The apparatus that makes this form of radio transmission possible consists of a machine much like the commercial typewriter, connected by electricky to a radio transmitting or receiving set. Each key of the spewriter is connected to the tadio apparatus in the airplane.

When a letter is struck a radio impulse is flashed from the antenna on the airplane to the receiving station below. On the receiving end is a similar instrument which reproduces the message in typewritten

The instrument has been named the "teletype." It has been in use for the last eight years in connection with land wire telegraphy. But this is the first time it has been applied to wireless. First tests were made at the naval air station at Anacostia, D. C.

The new system, it is said, will eliminate much of the chance of error in transmitting and receiving that is now experienced in the tele-



RECEIVING A RADIO MESSAGE BY TELETYPE.

phone and telegraph devices. Ac- curacy is the chief advantage of the teletype. Speed is next.

Pick Out the Kind of Radio Receiver Best Suited for Your Needs

By PAUL F. GODLEY,

the universal question most often of moderate price the two-circuit re- clearly, they will not provide suffi-



get an under- alone. The two-circuit vacuum tube four may be used. standing of the receiver should treble the range at several standard least.

the type of detector, all receivers are erate a small loud-speaker. When divided into two general classes, the phones are worn, distant pro-First comes those which employ but grams come in clearly. a single-tuned circuit. Angle-circult receivers are comprised by a have a choice between what is known means for tuning only the antenna as the "two-circuit" regenerative recircuit. They are not selective ceiver, and the "three-circuit" re-Though they may continue to serve generative receiver. Both give conadmirably to introduce radio to a siderable amplification of signal, due doubting public at a small price, to the regenerative action. The twothey cannot become permanent.

siderably greater selectivity than its justing controls. It also gives less tuned to the wave length that it is forerunner. At the same time one in the way of sensitivity and freedom desired to radiate. It is well adaptor two additional adjustments are from interference. It is for the lat- ed for use with the high-frequency necessary before proper signaliter reason that where possible it has alternator, for high-power transmisstrength is attained. These adjust- been passed by for the slightly more sion.

by A.A.MILNE

Calladine. "Here you are."

"Thank you very much."

if Heaven insisted, but preferably to this.

"A marriage has very nearly been

the Red House."

premonitory bulletin, the announce- "I never liked him, never!!"

been found yet?"

The RED HOUSE

along," Bill explained to Betty league with her mother against her.

dreadfully sorry I am about about But alas!! Cayley had misunder-

what has happened? It seems so stood her. She could not imagine

hopeless to say anything; so hope- Cayley in love-until she saw it, and

less even to believe it. If it is true; tried too late, to stop it. That was

Bill repeated the outline of the since, and now here was this letter.

"You will tell him, won't you, how that hopeless ineligible.

| ments are learned quickly. Addl-1 complicated and expensive type. America's Foremost Radio Authority tional trouble is more than offset by

asked by the radio enthusiast who ceiver should be selected by prefer- cient energy to operate a loud-speakcomes into the supply store. In- ence. The additional cost is slight, er excepting when signals are from stead of leaving it to the salesman. For those living within 15 miles nearby sources. For loud-speaking who may be thinking more of his of a broadcasting station, the crystal horns amplifiers must be used. All your need, an- viding the listener is willing to wear tubes. The usual type employs two swer it yourself, head-phones and is content with the stages of amplification, though

Regenerative Set.

There are two Perhaps the average listener will general types of be satisfied with nothing less than receivers - those the regenerative receiver which using some form takes full advantage of the properof mineral recti- ties of the three-element vacuum fier as detector, tube. Using a single tube, ranges of and those utiliz- several hundred miles are to be had ing the three- with such an outfit during darkness element vacuum in fall, winter and spring. For nearby programs the single tube may even give sufficient volume to op-

Even in regenerative receivers we

freedom from extraneous effects. In While the regenerative types of It's easy if you program from the nearby station where a lecture hall is to be filled.

The de luxe set for the average home should consist of a three-circuit regenerative receiver and twostage amplifier. Most farme will be found equipped in this way even-

Inability to erect antennae wil call in the future for the use of Armimmediately the super-heterodyne receiver which is, as Armstrong says, "the Rolls-Royce receiver." The form employs one of three vacuum tubes. The latter eight to

-A long antenna grounded at sevcircuit receiver costs about 30 per erai points clong its length through rel boys. cent less than the three-circuit re- loading inductances, by means of The two-circuit receiver gives con- ceiver and has but two or three ad- which the individual sections are

proke off with a shrug of her plump the squirrel.

Antony waited eagerly. duty as a mother was clear Mr. Gil-

But frankly."

It was a pleasure to turn to Cayley, daughter-?"

"There must have been a certain cream soda water."

"Yes. . . . And Mr. Ablett hasn't | relief to feel that at least she had an been bound to meet up at the Red cooler, Sammie." House sooner or later." "Oh, this was only quite lately?"

She shook her head in distress. "It Mrs. Norbury recegnized at once "Last week, Mr. Gillingham, still seems to have happened to that Antony was fikely to be the spoke just in time." somebody else; somebody we didn't more sympathetic listener; and know at all." Then, with a sudden when tea was over, and Bill and

grave smile which included both of Angela had been dispatched to the them, "But you must come and have garden, dear Mr. Gillingham found himself on the sofa beside her, lis-"It's awfully decent of you," said tening to many things which were of Bill awkwardly, "but we er - even greater interest to him than himself. But Mrs. Norbury was still "You will, won't you?" she said to she could posibly have hoped.

"It is terrible, terrible," she said. "And to suggest that dear Mr. Ab-Mrs. Norbury was delighted to see lett-" them, as she always was to see any Antony made suitable noises. man in her house who came up to "You've seen Mr. Ablett for your-

the necessary standard of eligibility, self. A kinder, more warmhearted When her life work was completed. | man-" and summed up in those beautiful Antony explained that he had not him?" words: "A marriage has been ar- seen Mr. Ablett.

four days ago. She had not seen him

She dreaded opening it. It was a

excuse for not doing so while her

ranged, and will shortly take place. "Of course, yes, I was forgetting, between Angela, daughter of the late But, believe me, Mr. Gillinghan, you John Norbury . . " then she would can trust a woman's intuition in utter a grateful Nune dimittie and these matters." depart in peace-to a better world. | Antony said that he was sure of

her new son-in-law's more dignified "Think of my feelings as a But it was not as "eligibles" that | Antony was thinking of Miss Nor-

the visitors from the Red House bury's feelings as a daughter, and were received with such eagerness wondering if she guessed that her today, and even if her special smile affairs were now being discussed for "possibles" was there, it was in- with a stranger. Mark engaged, or stinctive rather than reasoned. All about to be engaged! Had that any that she wanted at this moment was bearing on the events of yesterday? news-news of Mark. For she was What, for instance, would Mrs. Nor- gan again. bringing it off at last; and, if the bury have thought of brother engagement columns of the "Morn- Robert, that family skeleton? Was brother of his. He was perfectly frank with me, Mr. Gillingham. He case of its obitmary columns, by a brother Robert out of the way?

ment of yesterday would have cried! "Never liked-?" said Antony, betriumphantly to the world, or to wildered. such part of the world as mattered:

"That cousin of his-Mr. Cayley." "How did Miss Norbury get on so to anybody."

The girl was often amused by her "Oh, I beg your pardon. I never it,

mother's ways; sometimes ashamed meant-" of them; sometimes distressed by "Nothing, I can say that for dear Mr. Gillingham. Yesterday-" she

"You mean," said Antony, trying (Continued From Our Last Issue.) | seemed to her particularly distressto speak calmly, "that you told him us?" asked Jackie. "To the polar "Cayley asked us to bring a letter ling, for Mark was so obviously in

my duty as a mother."

awkwardness about the next meeting," suggested Antony,

Ah!" said Antony, under his breath. He had been waiting for it. He would have liked now to have gone away, so that he might have thought over the new situation by

"Girls are so foolish, Mr. Gillingham," she was saying. "It is fortunate that they have mothers to guide them. It was so obvious to me from the beginning that dear Mr. Ablett was just the husband for my little girl. You never knew

Antony said again that he had not seen Mr. Ablett.

"Such a gentleman. So-nice-lookng, in his artistic way. A regular Velasquez-I should say Van Dyck Angela would have it that she could never marry a man with a beard. Az if that mattered, when-" She broke off, and Antony finished her sentence

"The Red House is certainly charming." he said.

"Charming. Quite charming." She gave a deep sigh. Antony was about to snatch the opportunity of leaving, when Mrs. Norbury be-

"And then there's this scapegrace told me of his brother, and I told him that I was quite certain it would make no difference to my daughter's feelings for him. . . . After all, the brother was in Australia."

"When was this? Yesterday?" Anarranged (by Mrs. Norbury), and with him?" Antony asked cautiously, tony felt that, if Mark had only menwill certainly take place, between "There was nothing in that at all," tioned it after his brother's an-Angela, only daughter of the late said Miss Norbury's mother em. nouncoment of a personal call at the John Norbury, and Mark Ablett of phatically. "Nothing, I would say Red House, this perfect frankness had a good deal of wisdom behind

"It couldn't have been yesterday, them. The Mark Ablett affair had Angela with perfect confidence, shuddered, and shook her head.

store and stand with our noses "Oh, no- There is such a thing, pressed against the window on the now," laughed the bunny gentleman. Mr. Gillingham, as being too devoted outside, looking in. Uncle Wiggily Then he bought each of the animal lover. Not in the morning, no. will see us, and he can't do any- children a lollypop and they were We both agreed that dear Angela- thing else but ask us in to have very happy. So all the gas stove N. S.)-Gov. Sproul of Pennsylvania Oh, no. No; the day before yester- some; can he?" day, when he happened to drop in

It occurred to Antony that Mrs. Norbury had come a long way from Peetie. "Uncle Wiggily is so good her opening statement that Mark and kind that he'll ask us in as and Miss Norbury were practically engaged. She was now admitting tired and thirsty." that dear Angela was not to be

drug store," proposed Jackie. deed, no heart for the match at all. "The day before yesterday. As it happened, dear Angela was out. Not so hot?" asked Johnnie. that it mattered. He was driving to

Middleston. He hardly had time for the hotter and warm," answered Miss Irma Samson has returned a cup of tea so that even if she had Peetie, "and when we press our from a two week's visit with friends pended. Nyga paid the fine. been in-" Antony nodded absently. This Wiggily will feel sorry for us." was something new. Why did Mark go to Middleston the day before yes- idea, and soon the five animal boys and Mrs. Nelson Lounsbury, died terday? But, after all, why shouldn't | Were racing down the woodland | Saturday morning. Burial was in

alone alone, at least, with Bill. Mrs. | merry-go- round stool, drinking soda and Oil teams of South Bend. The Norbury had given him many things water, and there was Susie Little- visitors lost, 13 to 1. to think over, but the great outstand- tall, the rabbit girl, doing the same Mr. and Mrs. John Kerr have ing fact which had emerged was thing this: that Cayley had reason to hate "Come on, fellows!" exclaimed | Mandel Hendleman of Chicago was Mark. Mrs. Norbury had given him Sammie. "He's here all right - a week-end visitor with home people. that reason. To hate? Well, to be noses against the window - press | The Aid Society of the Methodist jealous, anyhow. But that was hard, and everybody look hot and church met Friday afternoon in the

rushed, that dear Angela had, in-

about tea-time"

self over this business, and that for soda water. Either to save Mark or to endanger her glass and, pointing to the big was 86 years old. The funeral servwhole-heartedly for him or whole- Uncle Wiggily: "Look!" heartedly against him. Well, now definitely against him."

the last field which divided them And than Uncle Wiggily did just what you would expect that folly ed its doors as a public institution from the road.

"Joily little place, isn't it?" sail bunny gentleman to do. He called Saturday afternoon, it having been to Sammie and the others: "Come closed for some weeks following the "Very. But rather mysterious, on in and have some ice cream

"Oh, there's a cart-track, but mo- Sammle to his chums, as they all board and Mrs. V. Harrington, th tor-cars can't come any nearer than shuffled in. "What receiver shall I buy?" It's either crystal or vacuum tube set receivers bring distant programs in At least, they'd have to build a road

and they turned round and continued their walk up to the road. commission than receiver will suffice for all time, pro- present-day amplifiers utilize vacuum But later on he remembered this saw the importance of it. CHAPTER XVI.

What was it which Cayley was going to hide in that pond that night? Antony thought that he knew now. It was Mark's body. (Continued in Our Next Issue.)

UNCLE

BY HOWARD R. GARIS

UNCLE WIGGLY AND THE SODA WATER.

Peetie! And you, too, Billie and filled with bubbles of gas. He clos-Johnnie! Come on!" cried Sammie ed his lips tightly, not knowing any Littletail, the rabbit boy, one day, better, and then as the bubbles MULTIPLE-TUNED ANTENNA as he saw the Bow Wow puppy went up his nose the Wolf howled: chaps and the two Bushytail squir- "Oh, what's the matter! I fee! like

> barked Jackie, as he chased a fly ran, having the hiccoughs and off his own little nose and made the sneezes at the same time, all on,

less you want us to come swimming," spoke Peetle, as he brushed the fly off his nose and caused Whether he made advances-" She to go sit down on the nose of Billie

"No. we aren't going swimming? said Sammie, with a jolly laugh "Naturally they met. Possibly he which made his pink nose twinkle. night have-I don't know. But my "But I'll take you to a place where we can be shady and cool.'

"Well, that will be fine!" chatter-Mr. Gillingham made an encourag- ed Johnnie, the other squirrel boyand then he gave a little jump. for "I told him quite frankly that- the fly his brother brushed from how shall I put it?-that he was his nose tickled Johnnie. It's a trespassing. Tactfully, of course very hot day," added Johnnie, "and I'd love to cool off."

"Where are you going to take that-er-Mr. Ablett and your bear ice cave of Mr. Whitewash?" "Oh, to a better place than that! Mrs. Norbury nodded several laughed Sammie. "Listen, fellows Uncle Wiggily is down at the cor-"Exactly, Mr. Gillingham. I had ner, in Dr. Possum's drug store, buying my sister Susie a glass of ice

"Well, what good does that do us?" Jackie wanted to know. "All since. No doubt they would have drink in a week won't make us any

"I know that," Sammle answered.



of Warning e you that your blood is impure.

> Boils are unnatural and offensive! Don't take a chance that all your blood impurities will force their way through the skin.

your skin clear up and your blood made rich and pure. The power of S. S. S. is an acknowledged fact. Right off, it clears the skin of boils, pimples, blotches, acne, ec-

Take S. S. S. and watch

zema, rash and other skin eruptions-and does it thoroughly. Mr. V. D. Schaff, 557 15th St. Washington, D. C., writes: "I tried for years to get relief from a bad case of boils. Everything failed until I took S. S. S. I am now absolutely cured, and it was S. S. S. that did it." Any good druggist can supply you with S. S. S.

S.S. makes you feel

"I thought perhaps he had been "But if we so down to the drug account of the soda water bubbles.

"That's a dandy idea!" laughed

noses against the window Uncle in Coldwater, Mich, and Lagrange, They all thought that was a good Thomas Robert, infant son of Mr. he? A hundred reasons unconnect- path that led to the drug store of Rosehill cemetery.

ed with the death of Robert might Dr. Possum. When they reached An interetsing ball name was the place, surely enough, there was played here Sunday afternoon, be-He got up to go. He wanted to be Uncle Wiggily sitting inside on a tween the Berrien Springs and Stand-

"You see," he said to Bill, as they It was very easy for the animal Walter Storick and his, mother walked back, "we know that Cayley boys to do this, for they surely were Mrs. Will Storick were South Bend is perjuring himself and risking him- hot and tired and oh! so thirstry visitors Friday All of a sudden Susie put down his home in Berrien Center. He

him. That is to say, he is either glass show window, she called to lices were held Tuesday afternoon at East Union church, conducted by "My goodness!" exclaimed the Rev. J. H. Bancroft, we know that he is against him, bunny rabbit gentleman as he saw The Eagles of South Bend enthe noses of the animal boys press- joyed a day's outing in the grove They had come to the gate into ed flat. "How extraordinary!" Sunday.

vote to take over the former private Isn't there a drive, or a road or any soda! "What did I tell you?" whispered

the road"-he turned round and "It was a good trick," said Jackie, have been added. The library will pointed-"up there. So the week- Soon the animal boys were drinking continue in the council rooms unti ing is made ready for occupancy.

"Doesn't it tickle your nose funny inside?" laughed Susle as some of Mrs. John Kerr of Homer, Mich., "I see," said Antony carelessly, the soda water bubbles seemed to were guests at the home of Mr. and

Mrs. Louis Samson, Friday and Saturday. Mr. Jackson is president of does that way just open your mouth the Calhoun State Bank in that city. casual conversation at the gate, and and the tickling will stop." But though the animal boys tried to do this sometimes the gas bubbles of the soda water came out so fast Carson & Oren, 125 W. Washington that they felt like laughing and ave. P. Main 549. -Adv.-208-tf

> All of a sudden, when the last of the soda was almost gone, into the drug store came the old Woozie

"Oh, ho!" growled the Wolf, "My Valuable Illustrated Book Sent Free. friend, the Fuzzy Fox, said Uncle Wiggily was here. Now to nibble "Oh, before you do that!" chied Dr. Possum, "have a glass of soda rived, is fully expli-

water, Mr. Wolf!" and he set before the bad chap a glass of extra strong soon full of bubbles. "Well, I'll drink the soda and then "Come on, Jackie! Come on, at once, his nose and mout's were

'Where do you want us to come?" on me! Oh, wow!" and away he

Gov. Sproul Will Not "I guess everything is all right Withdraw Mine Troops

WASHINGTON, Aug. 16 .- (By I doesn't try to walk on top of the will not withdraw national guards fonce with only two of its legs, and from the coal fields of that state unfal! off into the pansy bed. I'll tell til the mine strike is completely set- Woman Relied Upon Lydia you next about Uncle Wiggily and tled, he informed International News BERRIEN SPRINGS

PAYS \$100 FINE

The weiner roast planned by the Admitting the possession of a "Let's run all the way down to the Bethany class of the U. B. church small quantity of illicit liquur Lydia E. Pinkham's medicines years which was to have been held at seized recently by a police raiding "What for? Why run when it's the home of Mrs. Perry Summers octail, Albert Nyga, jeweler, 1602 Tuesday, has been postponed until W. Division st., was, in city court. Wednesday, fined \$100 and costs and Alven a 30-day jail sentence, sus-

> "For the First Time In 16 Years I Can Eat Three Hearty Meals a Day

TANLAC

is what freed me of stomach trouble," declares A. T. Rollow, 2237 Adams Ave., Ogden, Utah. Dyspeptics get little pleasure out of life.

Jacob Brenner died Saturday at

the recently purchased village build-

DENTISTRY

For reliable dentistry consult Drs.

How thousands of wemen, by the simple

method of an eminent physician, have

moment, Baby has ar-

Baby," Tells also what

to do before and after

Mr. and Mrs. John Jackson and

Don't let stomach troubles continue to undermine your health. Get Tanlac today. At all good drug stores.

E. Pinkham's Vegetable Compound



vere pains at menstrual periods, naking me very weak and interering with my regular duties. ried several remvas induced to try

ham's Vegetable Compound by friends and it restored me to normal health. I often have occasion and do recommend your Vegetable Compound to my friends who have troubles similar to my own. You may use these facts as a testimonial."-Eva Aldrich, 218 Union St., Em-

There are many women who first used our Vegetable Compound during their girlhood days. They found it a valuable help during trying periods. In later years they use it whenever they feel those annoying symptoms which women often have.

It is prepared carefully from medicinal plants, whose properties are especially adapted to correct the troubles women have.

Comfort Your Skin With Cuticura Soap and Fragrant Talcum

Money Makers!

This is the bank for Money-Makers and Money-Savers. As proof, just look at the thousands who use this bank to build up a large fund.

Plant your earnings in this strong bank and reap the success which is bound to come to the

Regularity and keeping at it brings results.

The Bank Ahead NEXT TO POST OFFICE JEFFERSON BLVD. Service-Stability





Think What This Means!

July-usually our slowest month—was the biggest summer month in our history!

The last 90 days (supposedly our dull season) have been our biggest! We think we should tell you about this. Our VERY LOW PRICES on FINE PLAYER-PIANOS brought buyers from 50 miles around. WE SOLD MORE PLAYERS IN MAY, JUNE and JULY THAN EVER BEFORE IN A 90 DAY PERIOD. . And so far in August they continue to buy, because of our NEW LOW PRICES on PIANOS, PLAYER-PIANOS, "DUO-ART" PIANOLAS, and GRANDS.

Summer months are usually slow for VICTROLAS. However, this year proved MORE VICTROLAS SOLD IN MAY, JUNE and JULY THAN EVER BEFORE! We credit this big increase to the MANY NEW MODELS AT NEW LOW PRICES-including 5 very popular new CONSOLE MODELS at prices AS LOW AS \$115.



Can you believe It? . This wonderful BRAND NEW PLAYER-PIANO ONLY \$365

Supply Limited-Come At Once,

Our Business Doubled Since the New Low Price Schedule!



Easy Terms!



If it hasn't this trademark, Refuse Imitations